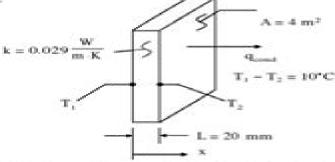
Fundamentals of Heat and Mass Transfer Bergman 7th Edition Solutions Manual

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KNOWN: Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation.

FIND: (a) The heat flux through a 2 m × 2 m sheet of the insulation, and (b) The heat rate through the sheet.

SCHEMATIC:



ASSUMPTIONS: (1) One-dimensional conduction in the x-direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: From Equation 1.2 the heat flux is

$$q^* = -k \frac{dT}{dx} = k \frac{T_L - T_2}{L}$$

 dx
 L

Solving.

$$q'' = 0.029 \frac{W}{m \cdot K} \times \frac{10K}{0.02 \text{ m}}$$

$$q''_x = 14.5 \frac{W}{m^2}$$

The heat rate is

$$q = q^* \cdot A = 14.5 \frac{W}{m^2} \times 4 m^2 = 58 W$$

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Xiang Xie

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